# SITE USE PLANS

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## 117 BLISS RD, SCHOHARIE, NY 12157 5,000.00 kW & 2000.00 kW AC SOLAR ELECTRIC SYSTEMS

GENERAL NOTES	PROJECT SCOPE	LOCATION MAP	DRAWING L	IST	
	THIS PROJECT CONSISTS OF THE INSTALLATION OF SOLAR MODULES, PER THE SYSTEM		SHFFT NUMBER	R SHEET TITLE	12 P/2
1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC AND "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTOR.	DESCRIPTION, BELOW. THE MODULES WILL BE INSTALLED ON A GROUND MOUNTED RACKING	"Mary,	T-1	TITLE PAGE	
2. THESE NOTES SET MINIMUM STANDARDS FOR CONSTRUCTION. THE DRAWINGS GOVERN OVER	SYSTEM. THE MODULES WILL BE WIRED IN SERIES STRINGS TO COMBINER BOXES, WHERE THEY WILL BE WIRED IN PARALLEL. THE OUTPUT OF THE COMBINER BOXES WILL BE CONNECTED IN		CIVIL		AN TRUE
THESE NOTES TO THE EXTENT SHOWN.  3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL	PARALLEL TO THE INVERTERS, WHICH CONVERT THE PHOTOVOLTAIC OUTPUT POWER FROM DC TO		C-0.0	CIVIL NOTES	751,
BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE	AC. THE SOLAR ELECTRIC SYSTEM WILL BE INTERCONNECTED WITH THE EXISTING SITE ELECTRICAL		C-1.0	EXISTING CONDITIONS PLAN — OVERALL	
AUTHORITY OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS AND IN THE SUBCONTRACTOR AGREEMENT.	SYSTEM IN ACCORDANCE WITH THE APPLICABLE ELECTRIC CODE AND NATIONAL GRID NY REQUIREMENTS.		C-2.0	TREE CLEARING PLAN	
4. EXCEPTIONS TO THE CONTRACT DOCUMENTS ARE PERMITTED ONLY WITH THE APPROVAL OF	TEGORIEMENTO.		C-3.0	OVERALL SITE PLAN	
BORREGO.			C-3.1	LAYOUT AND MATERIALS PLAN	
5. COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS AND NOTIFY BORREGO OF ANY DISCREPANCIES PRIOR TO BEGINNING			C-3.2	LAYOUT AND MATERIALS PLAN	
WORK.	SYSTEM DESCRIPTION - TOTAL		C-4.1	GRADING AND EROSION CONTROL PLAN	
6. DRAWINGS HAVE BEEN DETAILED IN COMPLIANCE WITH U.L. LISTING REQUIREMENTS AND THE BUILDING CODE FOR THE MATERIALS SPECIFIED. IF AN ALTERNATE OR SUBSTITUTED MATERIAL	SYSTEM SIZE (DC STC) 11,581.570 KW SYSTEM SIZE (AC) 7,000 KW		C-4.2	GRADING AND EROSION CONTROL PLAN	
IS ACCEPTED AS AN EQUAL BY BORREGO, THE SUBCONTRACTOR WILL ASSUME THE	(30082) IA SOLAR	Satskill Mountains	C-4.3	GRAVEL ROAD PLAN & PROFILE - 0+00 TO 18+00	
RESPONSIBILITY FOR WHATEVER CONSTRUCTION MODIFICATION AND/OR ADDITIONAL COST THAT	MODULES   (30002) 6A 30LAR   CEC RATING   356.85 W		C-4.4	GRAVEL ROAD PLAN & PROFILE - 18+00 TO 37+00	
IS REQUIRED BY REASON OF THIS ACCEPTANCE. 7. PRIOR TO THE COMMENCEMENT OF ANY WORK, EACH TRADE SHALL VERIFY EXISTING	MODULES PER STRING 26 # OF STRINGS 1157		C-4.5	GRAVEL ROAD PLAN & PROFILE - 37+00 TO END	
CONDITIONS AND NOTIFY BORREGO OF ANY DISCREPANCIES TO THAT WHICH IS SHOWN IN	RACKING TERRASMART TF3L TILT ANGLE 25°		C-5.0	CIVIL DETAILS	
THESE DRAWINGS, INCLUDING BUT NOT LIMITED TO DIMENSIONS OF THE WORK AREA, STRUCTURE, EXISTING ELECTRICAL SERVICE, CONDUIT PATHS, OBSTRUCTIONS, ACCESSIBILITY			C-5.1	CIVIL DETAILS	
ISSUES, AND WORKING CLEARANCES. ANY WORK PERFORMED IN CONFLICT WITH THE	INVERTER(S) (4) SMA SC2500-EV-US CEC EFFICIENCY 98.0 %		C-5.2	CULVERT DETAILS PLAN	
CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE SUBCONTRACTOR AT HIS OWN EXPENSE.	AZIMUTH 210° (SOUTH = 180°)	© 2018 Microsoft Corporation © 2018 HERE	C-6.0	CONSTRUCTION SEQUENCE PLAN	
8. SUBCONTRACTOR AT HIS OWN EXPENSE.  8. SUBCONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO BORREGO FOR	SYSTEM DESCRIPTION - SITE 1 (EAST)	ΛΕΡΙΛΙ \/ΙΕ\Λ/	L-1.0	LANDSCAPING PLAN	
APPROVAL PRIOR TO MAKING ANY CHANGES. APPROVED CHANGES REQUIRE A DRAWING		AERIAL VIEW	ELECTRICAL		75
REVISION TO MAINTAIN CONTROL OVER THE APPROVED DESIGN. DEVIATION FROM THESE PLANS PRIOR TO BORREGO APPROVAL PLACES ALL LIABILITY ON THE SUBCONTRACTOR.	SYSTEM SIZE (DC STC) 7,957.950 KW SYSTEM SIZE (AC) 5,000 KW		E-2.1	AC SINGLE LINE DIAGRAM SITE 1	ANS RD Y 121
9. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT ARE NEW.	MODULES (20670) JA SOLAR CEC RATING 356.85 W		E-2.2	AC SINGLE LINE DIAGRAM SITE 2	—————————————————————————————————————
10. ALL ITEMS TO BE REMOVED AND RELOCATED OR REPLACED SHALL BE HANDLED WITH PROPER CARE AND STORED IN A SAFE PLACE TO PREVENT DAMAGE; OR BE REPLACED AT	JAM72509-365/PR	- Market Company of the Company of t	2		E E E
THE SUBCONTRACTOR'S EXPENSE.	MODULES PER STRING 26 # OF STRINGS 795				USE I BLIS
11. ALL EQUIPMENT SHALL BE MOUNTED AS SHOWN. WHERE DETAILS ARE NOT PROVIDED, THE	RACKING TERRASMART TF3L TILT ANGLE 25°	Jenes Los	4		日 4
SUBCONTRACTOR SHALL USE DILIGENT EFFORTS TO MOUNT EQUIPMENT SUCH THAT IT WILL BE CLEAN, LEVEL AND SOLID.	INVERTER(S) (2) SMA SC2500-EV-US CEC EFFICIENCY 98.0 %				SITE 117 HOE
12. ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND NEW DEVICES AND EQUIPMENT TO	A704UTU 4000		<b>₹</b>		SC
MATCH EXISTING FINISHES.  13. ANY METAL SHAVINGS RESULTING FROM SITE WORK SHALL BE CLEANED FROM ROOF	AZIMUTH 210° (SOUTH = 180°)				
SURFACES, ENCLOSURES AND ANY ADDITIONAL AREAS WHERE OXIDIZED OR CONDUCTIVE	SYSTEM DESCRIPTION - SITE 2 (WEST)				
METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS OR OTHER DAMAGE.  14. NO STRUCTURAL MEMBER SHALL BE DRILLED UNLESS SPECIFICALLY AUTHORIZED BY	SYSTEM SIZE (DC STC) 3,623.620 KW SYSTEM SIZE (AC) 2,000 KW		3		
BORREGO.	(9412) JA SOLAR				
15. SUBCONTRACTOR ACKNOWLEDGES THAT THE SYSTEM AS INDICATED ON THE PLANS REQUIRES	MODULES   JAM72S09-385/PR   CEC RATING   356.85 W				
ALL COMPONENTS TO BE INSTALLED TO PROPERLY RESIST WIND LOADS, SUCH AS BALLAST, WIND DEFLECTORS, ETC. IT IS THE RESPONSIBILITY OF THE SUBCONTRACTOR TO PROVIDE	MODULES PER STRING 26 # OF STRINGS 362	A PART DOMESTICAL PROPERTY OF THE PARTY OF T	No.		
TEMPORARY MEANS TO RESIST WIND LOADS FOR ALL COMPONENTS NOT YET INSTALLED	RACKING TERRASMART TF3L TILT ANGLE 25°				PROJECT NUMBER:
DURING AND AFTER REGULAR WORKING HOURS. THIS MAY INCLUDE TEMPORARY TIE DOWNS, COVERING, BALLAST OR ANY OTHER MEANS. DAMAGE TO ANY INSTALLED SYSTEM COMPONENT	INIVERTER(S) (1) SMA SC2500-EV-US LIMITED CEC EFFICIENCY OR 0. %				908-0999
OR THE EXISTING FACILITY AS A RESULT OF THE UNFINISHED CONDITION NOT ADEQUATELY	INVERTER(S)  (1) SMA SC2500-EV-US LIMITED CEC EFFICIENCY 98.0 %  @2000KW				
RESISTING WIND SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR TO REPAIR OR REPLACE AT THE SUBCONTRACTOR'S COST.	AZIMUTH 210° (SOUTH = 180°)	Stony Brook Ro			
16. TREES MAY GROW DURING THE LIFE OF THE SYSTEM AND IMPACT THE PRODUCTION.		grisbleville 8d			OARD OARD
V.7		© 2018 Microsoft Corporation © 2018 DigitalGlobe ©CNES (2018) Distribution Airbus DS © 2018 HERE	20		
					PLANNING PLANNING PLANNING ESUBMISSIO
APPLICABLE CODES AND STANDARDS	PROJECT DIRECTORY	GENERAL ABBREVIATIONS			SUBN
2014 NATIONAL ELECTRICAL CODE	OWNER PROJECT MANAGER TBD FIRM: BORREGO SOLAR SYSTEMS, INC.	(E) EXISTING NS NORTH—SOUTH			10 F RES
2015 INTERNATIONAL BUILDING CODE 2016 NEW YORK STATE UNIFORM CODE SUPPLEMENT	TBD FIRM: BORREGO SOLAR SYSTEMS, INC. CONTACT: NED CHANEY	ÀHJ AUTHORITY HAVING JURISDICTION NTS NOT TO SCALE AL ALUMINUM OAE OR APPROVED EQUAL			
UL-1703 - SOLAR MODULES	HOST PHONE: (978) 513–2606	APPROX APPROXIMATE OC ON CENTER			RELEASE LEVEL SUBMISSION SUBMISSION SUBMISSION TOWN BOARE
UL-1741 - INVERTERS, COMBINER BOXES UL-2703 - RACKING MOUNTING SYSTEMS AND CLAMPING DEVICES FOR PV MODULES	LEONARD B. BERDAN 117 BLISS RD CIVIL ENGINEER	ARY ARRAY OD OUTSIDE DIAMETER BLDG BUILDING OFCI OWNER FURNISHED CONTRACTOR			JBM JBM JWN
UL-2703 - RACKING MOUNTING STSTEMS AND CLAMPING DEVICES FOR PV MODULES	SCHOHARIE, NY 12157 FIRM: BORREGO SOLAR SYSTEMS, INC.	BSS BORREGO SOLAR SYSTEM INSTALLED			M   N   N   N   N   N   N   N   N   N
	CONTACT: DAVID ALBRECHT, P.E.	CL CENTERLINE PV PHOTOVOLTAIC			DMA DMA DMA DMA
	AUTHORITY HAVING JURISDICTION PHONE: (978)-513-2621 TOWN OF SCHOHARIE	DAS DATA ACQUISITION SYSTEM PVC POLY VINYL CHLORIDE DIA DIAMETER SCH SCHEDULE			8 0 0 0
	276 MAIN STREET - SUITE 2 <u>STRUCTURAL ENGINEER</u>	DO DITTO SS STAINLESS STEEL			CS CS CS CS
	PO BOX 396 FIRM: PV ENGINEERS, P.C. SCHOHARIE, NY 12157 CONTACT: DAVID DUTIL, P.E.	EW EAST—WEST SSS SOLAR SUPPORT STRUCTURE FBO FURNISHED BY OTHERS STC STANDARD TEST CONDITIONS			Δ
	PHONE: (978)-513-2623	FF FORWARD FACING TBD TO BE DETERMINED			Е /18 /19 /19
	UTILITY NATIONAL GRID NY <u>ELECTRICAL ENGINEER</u>	GALV GALVANIZED TP TAMPER PROOF HDG HOT DIP GALVANIZED TYP TYPICAL			DATE 7/3/1 3/29/1 6/5/1 9/5/1
	FIRM: PV ENGINEERS, P.C.	HDG HOT DIP GALVANIZED TYP TYPICAL HVAC HEATING VENTILATION AND AIR UON UNLESS OTHERWISE NOTED			
	CONTACT: PAT RETELLE, P.E., PMP	CONDITIONING VIF VERIFY IN FIELD			SON ES STATED ON DEPARATION
	PHONE: (978)-610-2864	ID INSIDE DIAMETER WP WEATHER PROOF MFR MANUFACTURER			SCALES STATED ON DRAWING: ARE VALID ONLY WHEN PLOTTI ARCH D 24" X 36"
	DESIGN ENGINEER	MOD SOLAR MODULE REV 1.0	)		
	LIDM: DODDECO COLAD CYCTEMC INC	1	Ī		<b></b>
	FIRM: BORREGO SOLAR SYSTEMS, INC. CONTACT: JOHN LAGASSE				-1

### **GENERAL CIVIL NOTES**

#### **APPROVALS**

GENERAL NOTES

- 1. TOWN OF SCHOHARIE SPECIAL USE PERMIT #\_\_\_\_ DATED \_\_\_\_.
- 2. SITE PLAN APPROVAL #\_\_\_\_ DATED \_\_\_\_. \_\_\_\_.
- 3. DOT HIGHWAY ACCESS PERMIT # \_\_\_\_ DATED
- AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE BORREGO SOLAR SYSTEMS, INC., "SUBCONTRACTOR" IS BORREGO'S INSTALLATION SUBCONTRACTORS (INCLUDING SITE WORK SUBCONTRACTOR) AND CIVIL ENGINEER OF RECORD (CEOR) IS PV ENGINEERS DPC'S IN-HOUSE CIVIL ENGINEER.
- 2. EXISTING CONDITIONS SURVEY INFORMATION WAS PREPARED BY LAWSON SURVEYING, INC. PERFORMED BETWEEN 5/14/2018 AND 6/10/2019.. HORIZONTAL DATUM IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM EAST ZONE 3101 NAD 83, VERTICAL DATUM IS REFERENCED TO NAVD 88.
- 3. THERE IS NO GUARANTEE THAT ALL THE EXISTING UTILITIES, WHETHER FUNCTIONAL OR ABANDONED WITHIN THE PROJECT LIMITS ARE ON THIS DRAWING. THE CONTRACTOR SHALI DETERMINE THE EXACT LOCATION OF ALL UNDERGOUND UTILITIES BEFORE STARTING WORK AND SHALL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM THIS WORK. BEFORE COMMENCING WORK CONTACT "DIG SAFELY NEW YORK" AT 1-800-962-7962 AND PROVIDE 72 HOURS NOTICE.
- 4. THE SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND REPORT TO BORREGO.
- 5. THE TOWN OF SCHOHARIE APPROVALS SHALL BE KEPT ON SITE AT ALL TIMES.
- 6. PRIOR TO CONSTRUCTING THE SITE ENTRANCES ONTO ROUTE 30 THE CONTRACTOR SHALL OBTAIN A HIGHWAY/DRIVEWAY PERMIT FROM THE NEW YORK STATE DEPARTMENT OF TRANSPORATION.
- 7. THE CONTRACTOR SHALL ALLOW TOWN OFFICIALS ON SITE DURING CONSTRUCTION HOURS ONLY AND AS LONG AS ALL SAFETY MEASURES ARE IN PLACE
- 8. THE CONTRACTOR SHALL CONTACT DIG SAFELY NY AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANIES TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY DAMAGE DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
- 9. SUBCONTRACTOR(s) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND SITE CONDITIONS PRIOR TO BIDDING AND PRIOR TO CONSTRUCTION.
- 10. ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE CONTRACTOR/CEOR FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING OR CONSTRUCTION.
- 11. CONTRACTOR PARKING AREA(S) SHALL BE AS DESIGNATED ON THESE PLANS UNLESS OTHER AREAS APPROVED BY BORREGO SOLAR SITE SUPERINTENDENT. PARKING AREAS SHALL BE CONSTRUCTED USING A MINIMUM OF 6-INCHES OF GRAVEL 6-INCH MINUS) AND SURROUNDED BY AN ORANGE SNOW FENCE. POST-CONSTRUCTION THE PARKING AREA(S) SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS, INCLUDING, BUT NOT LIMITED TO REGRADING, LOAMING AND SEEDING. IN NO CASE SHALL PARKING AREAS, LAYDOWN AREAS, CONSTRUCTION TRAILERS, AND PORTABLE TOILETS BE LOCATED WITHIN A WETLAND RESOURCE AREA AND/OR ANY BUFFER ZONES.

#### SITE PREPARATION NOTES

- AREAS DESIGNATED FOR CLEARING SHALL BE CLEARED ONLY. NO GRUBBING OR STRIPPING OF TOPSOIL IS NECESSARY, UNLESS SPECIFICALLY SHOWN OTHERWISE AND APPROVAL HAS BEEN GIVEN BY THE CONTRACTOR.
- TREE REMOVAL SHALL BE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL PERMITS. TREES TO BE REMOVED SHALL BE MARKED BY BORREGO PROJECT MANAGER OR SITE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK ON-SITE.
- 3. STUMPS TO REMAIN SHALL BE LEFT AT NO HIGHER THAN 12-INCHES ABOVE GRADE.
- 4. TREES SHALL BE CUT BETWEEN . TREES SHALL NOT BE CUT ANY OTHER TIME OF THE YEAR.
- 5. THE SUBCONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS TO REMAIN THAT ARE DUE TO SUBCONTRACTOR(S) OPERATIONS.
- ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER SHALL BE LEGALLY DISPOSED OF OFF SITE BY THE SUBCONTRACTOR(S)
- THE SUBCONTRACTOR(S) SHALL BE RESPONSIBLE FOR COORDINATING THEIR EFFORTS WITH ALL TRADES.
- 8. THE SUBCONTRACTOR(S) SHALL COORDINATE ALL ADJUSTMENT OR ABANDONMENT OF UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
- THE SUBCONTRACTOR(S) SHALL MAINTAIN OR ADJUST TO NEW FINISH GRADE AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MAN HOLES, CATCH BASINS HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED OR DIRECTED BY THE CONTRACTOR/CEOR.
- 10. TEMPORARY CONSTRUCTION HAUL ROADS (IF REQUIRED) SHALL BE EXCAVATED AND THE SUB-BASE COMPACTED TO 95% SPMDD. THE USE OF SEPARATION FABRICS MAY BE USED TO FACILITATE FUTURE REMOVAL AND RECOVERY OF GRANULAR MATERIALS. HAUL ROAD SHALL HAVE AT LEAST 9" OF 6-INCH MINUS STONE AND SHALL BE MAINTAINED DURING CONSTRUCTION.

#### EROSION AND SEDIMENT CONTROL MEASURES

- (NY) A SPDES PERMIT SHALL BE IN PLACE PRIOR TO COMMENCING ANY EARTH DISTURBANCE. THE SPDES PERMIT # IS \_\_\_\_, ISSUED ON \_\_\_\_, 2019.
- FROSION CONTROLS SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGED CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED EROSION CONTROL PLAN INCLUDING SCHEDULE FOR APPROVAL BY THE TOWN OF SCHOHARIE OR THEIR AUTHORIZED REPRESENTATIVE. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE EXCAVATION OR DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME.
- SEDIMENT BARRIERS SHALL BE INSPECTED AND APPROVED BY THE TOWN OF SCHOHARIE OR THEIR AUTHORIZED REPRESENTATIVE AND THE CONTRACTOR/CEOR BEFORE CONSTRUCTION CAN START.
- STRAW BALES AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH. FREE OF NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY WHEN INSTALLED.
- THE UNDERSIDE OF STRAW BALES SHOULD BE KEPT IN CLOSE CONTACT (TRENCHED IN 3-INCHES MINIMUM) WITH THE EARTH AND RESET AS NECESSARY.
- DISTURBED AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE BLANKETED OR SEEDED AND MULCHED WITHIN 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING.

- 8. STABILIZE SLOPES GREATER THAN 3:1 (HORIZONTAL: VERTICAL) WITH SEED, SECURED GEOTEXTILE FABRIC. SPRAYED COMPOST BLANKET. OR RIP-RAP AS REQUIRED TO PREVENT EROSION DURING CONSTRUCTION.
- 9. SEDIMENT BARRIERS SHALL BE CONSTRUCTED AROUND ALL SOIL STOCKPILE AREAS.
- 10. CLEAN OUT PROJECT DRAINAGE FEATURES AND STRUCTURES (I.E. CULVERTS, BASINS, SWALES, ETC.) AFTER COMPLETION OF CONSTRUCTION.
- 11. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE SEDIMENT CONTROL MEASURE.
- 12. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE SUBCONTRACTOR(S) SHALL REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AT THE CONTRACTOR/CEOR DIRECTION.
- 13. AFTER THE REMOVAL OF TEMPORARY EROSION CONTROL MEASURES, THE SUBCONTRACTOR(S) SHALL GRADE AND SEED AREA OF TEMPORARY EROSION CONTROL MEASURE.
- 14. DAMAGED OR DETERIORATED ITEMS WILL BE REPAIRED IMMEDIATELY AFTER IDENTIFICATION OR AS DIRECTED BY THE CONTRACTOR/CEOR.
- 15. THE CONTRACTOR'S SITE SUPERINTENDENT IS RESPONSIBLE FOR DAILY INSPECTIONS. MAINTENANCE, AND DIRECTING REPAIR ACTIVITIES. IN ACCORDANCE WITH THE SPDES REQUIREMENTS. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES TWICE EVERY SEVEN (7) CALENDAR DAYS (IF GREATER THAN 5 ACRES IS TO BE DISTURBED AT ANY ONE TIME) OR ONCE EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS.
- 16. PIPE OUTLETS (IF ANY) SHALL BE STABILIZED WITH STONE. REFER TO DETAILS.
- 17. TEMPORARY SEEDING (WINTER RYE) SHALL BE AT A RATE OF 45 LBS PER ACRE. ERODABLE AREAS OUTSIDE AND DOWN SLOPE FROM THE CONSTRUCTION LIMITS SHALL BE SIMILARLY SEEDED. REFER TO REVEGETATION PLAN FOR SEEDING SPECIFICATIONS.
- 18. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED. DEWATERING PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CEOR AND ADDED TO THE SWPPP.
- 19. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION/SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY CONTRACTOR/CEOR
- 20. GRAVEL ROADS. ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
- 21. NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. NO RE-FUELING SHALL OCCUR WITHIN 100 FEET OF ANY WETLAND RESOURCE AREA AND 200 FEET FROM RIVERFRONT. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- 22. THE COST OF REPAIRING EROSION CONTROL MEASURES OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
- 23. EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL. CONTRACTOR SHALL PROVIDE TO THE CONSERVATION COMMISSION MEASURES (EROSION AND SEDIMENTAITON CONTROL) FOR WORK DURING WINTER CONDITIONS.
- 24. CONTRACTOR SHALL SPRAY WATER FROM A WATER TRUCK ON DRY AND WINDY DAYS TO PREVENT DUST FROM FORMING. OTHER ALLOWED FORMS OF DUST CONTROL MUST BE REQUESTED IN WRITING AND SUBMITTED TO THE CEOR BEFORE ANY DUST CONTROL CAN COMMENCE.
- 25. EROSION CONTROL MEASURES AS SHOWN ON THESE DRAWINGS IS INTENDED TO CONVEY MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO PREVENT SOIL EROSION AND TO COMPLY WITH THE PROJECT'S SPDES PERMIT STORMWATER POLLUTION PREVENTION PLAN.
- 26. SOILS ON SLOPES THAT ARE 3:1 OR STEEPER SHOULD BE ROUGHENED PER THE EPA'S NPDES SOIL ROUGHENING FACT SHEET IF THEY ARE TO BE SEEDED WITHIN 2 WEEKS OF DISTURBANCE. IF NOT, EROSION CONTROL BLANKETS SHOULD BE INSTALLED ON THESE SLOPES.

#### LAYOUT AND MATERIAL NOTES

1. BENCHMARKS TO BE USED FOR CONSTRUCTION LAYOUT ARE:

#### BENCHMARK #1: \_\_\_\_\_

- BENCHMARK #2: \_\_\_\_\_
- THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN: a. TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.
- b. DIMENSIONS TO RACKING SHALL BE TO TOP OF SOLAR PANEL OR LEADING EDGE. c. DISTANCES AND DIMENSIONS ARE IN DECIMAL FEET.
- 2. SCREENED IMAGES SHOW EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPINGED UPON BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED. ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED
- AMBIGUITIES IN THE PLANS SHALL BE CLARIFIED BY THE CEOR OR SITE SUPERINTENDENT. 3. THE CONTRACTOR SHALL HAVE ELECTRICAL TRENCHES AND RACKING STAKED OUT BY A LICENSED LAND SURVEYOR PRIOR TO ANY INSTALLATION OF RACKING OR TRENCHES.
- 4. EXCESS TRENCH MATERIAL SHALL BE PLACED ON THE SIDES OF THE TRENCH AND PLACED AT OR NEAR THE SAME LOCATION AS WHERE EXCAVATED. TOPSOIL REMOVED SHALL BE PLACED ON TOP AND LIGHTLY COMPACTED.

#### GRADING AND UTILITY NOTES

- 1. PRIOR TO THE START OF ANY EXCAVATION FOR THE PROJECT, BOTH ON AND OFF THE SITE. THE CONTRACTOR SHALL NOTIFY DIG-SAFELY NY ND BE PROVIDED WITH A TICKET NUMBER INDICATING THAT ALL EXISTING UTILITIES HAVE BEEN LOCATED AND MARKED.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR. THE SUBCONTRACTOR(S) SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- 3. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE SUBCONTRACTOR(S), AND THE INFORMATION FURNISHED TO THE CONTRACTOR/CEOR FOR RESOLUTION OF THE CONFLICT.
- 4. UTILITY-OWNED EQUIPMENT ON ELECTRICAL POLES TO BE INSTALLED WILL CONSIST OF METERING EQUIPMENT. THE UTILITY SHALL OVERSEE THE PERMITTING OF THE EQUIPMENT.

- SEE PLANS FOR DETAILS OF INSTALLATION AND LAYOUT OF POLES.
- 5. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE SUBCONTRACTOR(S) OPERATIONS SHALL BE RESTORED BY THE SUBCONTRACTOR(S) TO THEIR ORIGINAL CONDITION, AT THE SUBCONTRACTOR(S) EXPENSE
- 6. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY, THE RESPECTIVE ELECTRIC UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE UTILITY CONNECTIONS WITH THE RESPECTIVE COMPANIES PRIOR TO ANY UTILITY CONSTRUCTION.
- 7. GRADES MEET EXISTING GRADES, SUBCONTRACTOR(S) SHALL BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING AND NEW WORK. PONDING AT TRANSITION AREAS WILL NOT BE ALLOWED.
- 8. SUBCONTRACTOR(S) SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
- MAXIMUM LONGITUDINAL SLOPES SHALL NOT EXCEED 10:1 ALONG GRAVEL ROADS (UNLESS SHOWN OTHERWISE) AND WITHIN FENCED SOLAR ARRAY AREAS, AND 3:1 IN ALL OTHER DISTURBED AREAS, UNLESS OTHERWISE NOTED.
- 10. SUBCONTRACTOR(S) SHALL VERIFY EXISTING GRADES AND NOTIFY THE CONTRACTOR/CEOR OF ANY DISCREPANCIES.

#### PROJECT COMPLETION

1. DISTURBED AREAS SHALL BE DE-COMPACTED WITH A YORK RAKE OR SIMILAR DEVICE TO A MINIMUM OF 4-INCHES AND RE-SEEDED IN ACCORDANCE WITH THE SEED MIXES SHOWN ON SHEET C-3.0.

#### PLANTING NOTES

- 1. CONTRACTOR SHALL BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND WILL CONTINUE UNTIL FINAL WRITTEN ACCEPTANCE OF PLANT MATERIAL. ALL PLANT MATERIALS SHALL COME WITH A MINIMUM 1-YEAR REPLACEMENT WARRANTY.
- 2. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES. AND ELECTRICAL EQUIPMENT AREAS.
- 3. MAXIMUM SLOPE WITHIN DISTURBED AREAS SHALL NOT EXCEED 3:1, UNLESS OTHERWISE
- 4. THE LANDSCAPE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE ALL PLANTINGS SHOWN ON THE DRAWINGS.
- MATERIALS SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN NURSERY
- AND LANDSCAPE ASSOCIATION.
- 6. PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISH GRADE AS TO ORIGINAL GRADES BEFORE DIGGING.
- 7. PLANTS TO BE BALLED IN BURLAP OR CONTAINERIZED.
- 8. AREAS PLANTED WITH EVERGREEN TREES SHALL BE COVERED WITH A MINIMUM 3" OF MULCH. MULCH FOR PLANTED AREAS TO BE AGED PINE BARK: PARTIALLY DECOMPOSED. DARK BROWN IN COLOR AND FREE OF WOOD CHIPS THICKER THAN 1/4 INCH.
- 9. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR ONE (1) FULL YEAR FROM DATE OF ACCEPTANCE.
- 10. PLANT MATERIALS ARE SUBJECT TO THE APPROVAL OF THE CONTRACTOR/CEOR. AT THE NURSERY. AND AT THE SITE.
- 11. PLANT SPECIES AS INDICATED IN THE PLANT LIST ARE SUGGESTIONS ONLY. FINAL SELECTION OF SPECIES SHALL OCCUR AT THE TIME OF PLANT PURCHASE. DEPENDING ON AVAILABILITY. PLANT SIZE AND QUANTITY SHALL NOT CHANGE WITHOUT APPROVAL OF CONTRACTOR/CEOR.

#### CIVIL SHOP DRAWINGS

(INCLUDE BUT ARE NOT LIMITED TO:)

- MULCH TUBE (FILTREXX SOCK)
- SILT FENCE
- STONE FOR STABILIZED CONSTRUCTION EXIT
- EROSION CONTROL FABRIC FOR SLOPES
- GEOTEXTILE ROAD STABILIZATION FABRIC FOR ROAD
- STONE FOR ROADWAY
- CHAIN LINK FENCE
- CHAIN LINK GATES (VEHICULAR/MAN)
- FORESTRY ACCESS GATES
- DRAINAGE CULVERT
- FLARED END SECTIONS/HEADWALLS
- ROCK RIP RAP
- TRENCH BEDDING MATERIAL
- TRENCH BACKFILL MATERIAL
- PLANTING MATERIALS (TREES/SHRUBS)

#### **ABBREVIATIONS**

BOTTOM OF CURB BVW BORDERING VEGETATED WETLANDS CATCH BASIN CHAIN LINK FENCE DUCTILE IRON PIPE DMH DRAIN MANHOLE **EROSION CONTROL BARRIER** FLARED END SECTION FIRE HYDRANT FACE OF CURB GAS GATE **HEADWALL** ILSF ISOLATED LANDS SUBJECT TO **FLOODING** ISOLATED WETLANDS (FEDERAL JURISDICTION) LANDSCAPED AREA

LIMIT OF WORK

NOT TO SCALE

OUTLET CONTROL STRUCTURE

REINFORCED CONCRETE PIPE

PRECAST CONCRETE CURB

STREET LIGHT CIRCUIT

VERTICAL GRANITE CURB

SEWER MANHOLE

TELEPHONE CABLE

TOP OF CURB

WATER GATE

REV 1.0

LEGEND

SOLAR MODULES ROAD (GRAVEL) ----- PROPERTY LINE FLOW DIRECTION BANK LINE/FLAG \*\* WF # WETLAND LINE/FLAG (E) MAJOR CONTOUR (E) MINOR CONTOUR ----- 99 ------- PROPOSED MINOR CONTOUR 100' WETLAND BUFFER ZONE 200' RFA 200' RIVERFRONT AREA 100-YEAR FLOOD LINE 100-YEAR FLOOD LINE

WATER RESOURCE OVERLAY DISTRICT
WATER RESOURCE OVERLAY DISTRICT EDGE OF WATER TREELINE · STONE WALL —— Low —— Low — LIMIT OF WORK — » ———— » ——— DRAIN PIPE — E — ELECTRICAL TRENCH

\_\_\_\_\_ G A S \_\_\_\_ G A S \_\_\_\_ GAS MAIN OMITTED MODULE ASSESSORS MAP-LOT (23-23A) SPARE MODULE CB/DH CONCRETE BOUNDDRILL/HOLE

----- OVERHEAD ELECTRIC

— s ———— SEWER LINE

Ø NON-ACTIVE MODULE DRILLHOLE DH STONE BOUND DRILL/HOLE FOUND FND NOW OR FORMERLY CMP

IRON PIPE

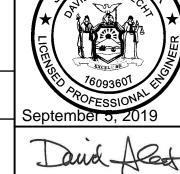
CORRUGATED METAL PIPE BIT CONC BITUMINOUS CONCRETE RET WALL RETAINING WALL

Engineers LOWELL, MA 01851 PHONE: (888) 898-6273 FAX: (888) 843-6778

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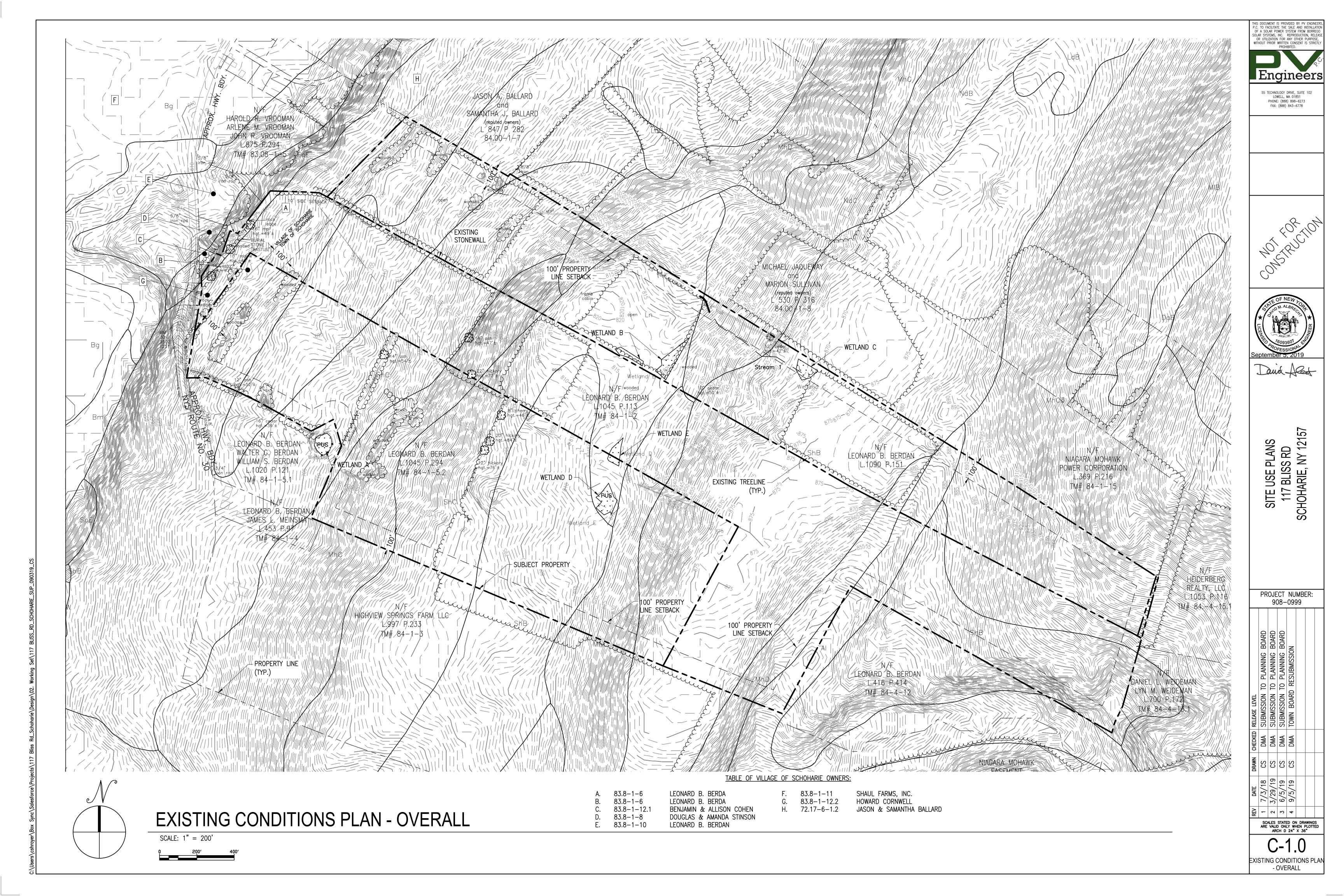
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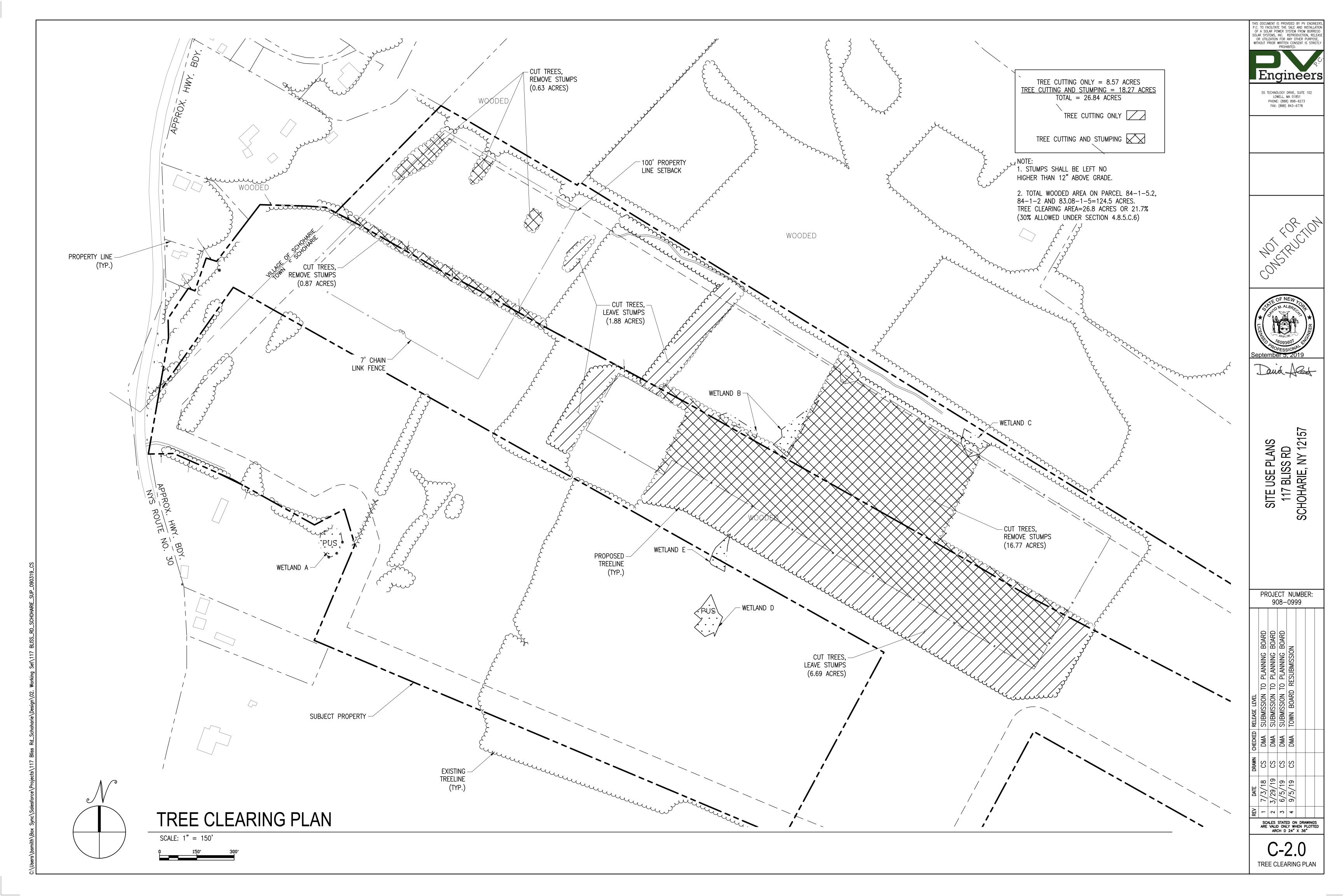
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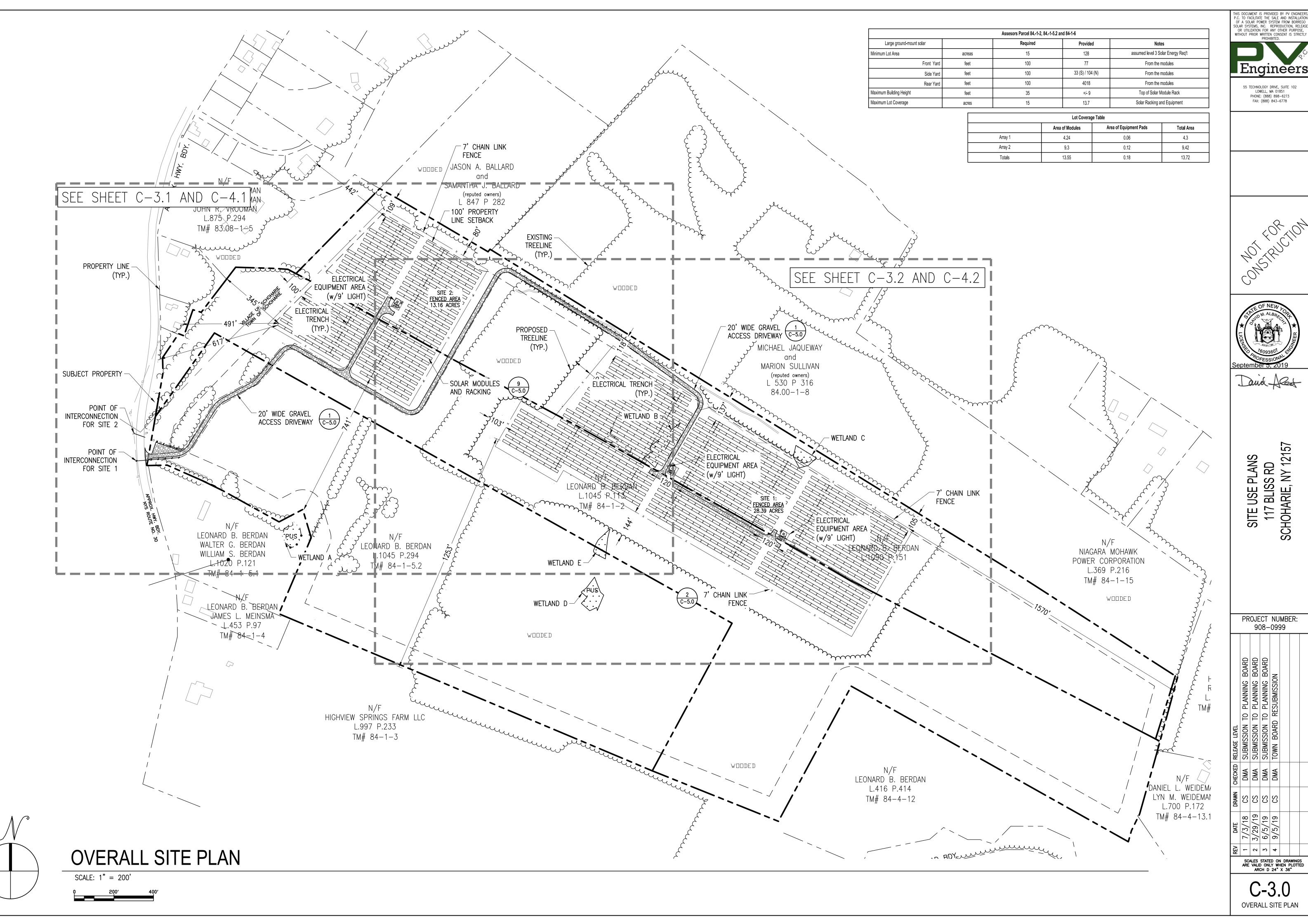
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C-0.0

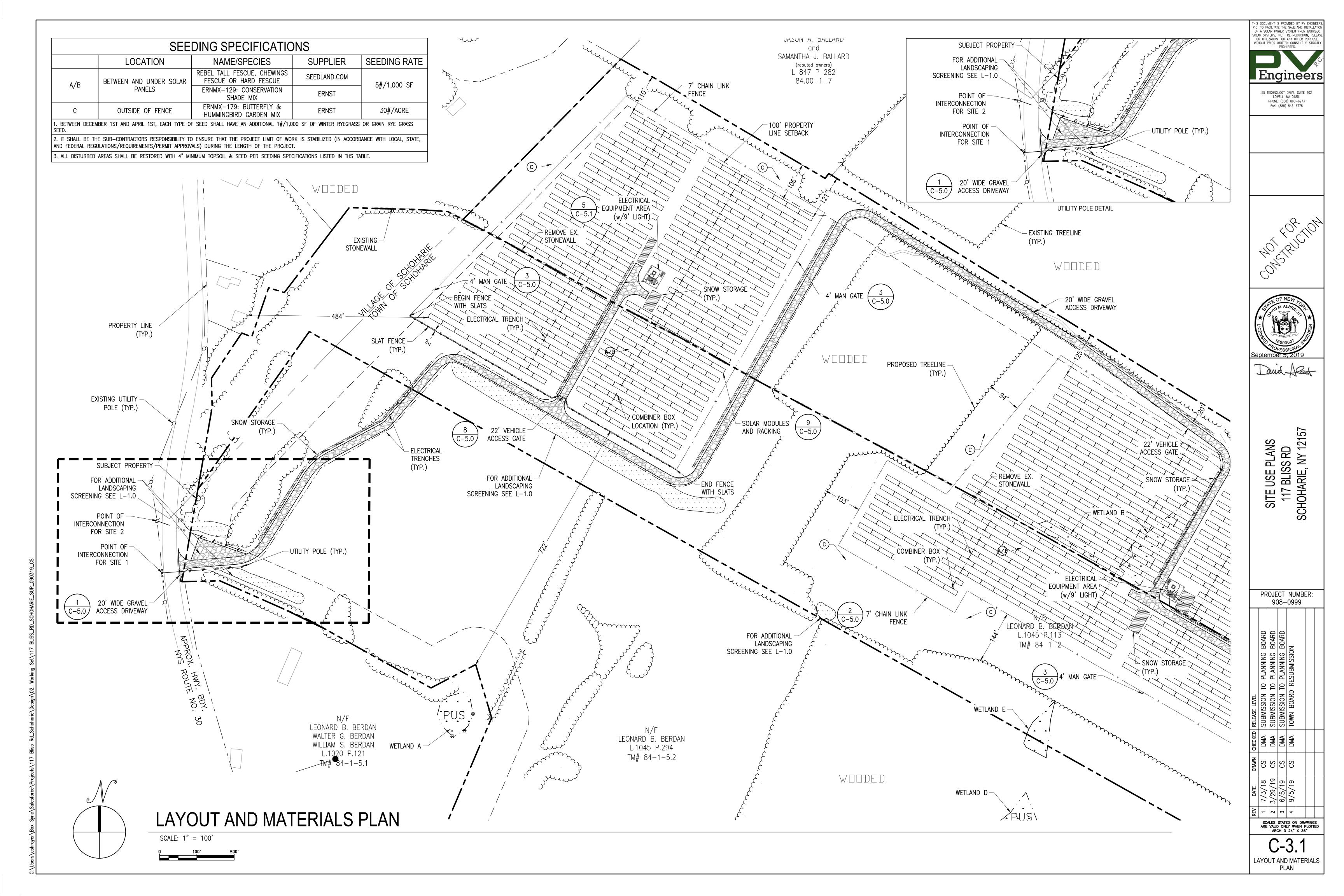
**CIVIL NOTES** 

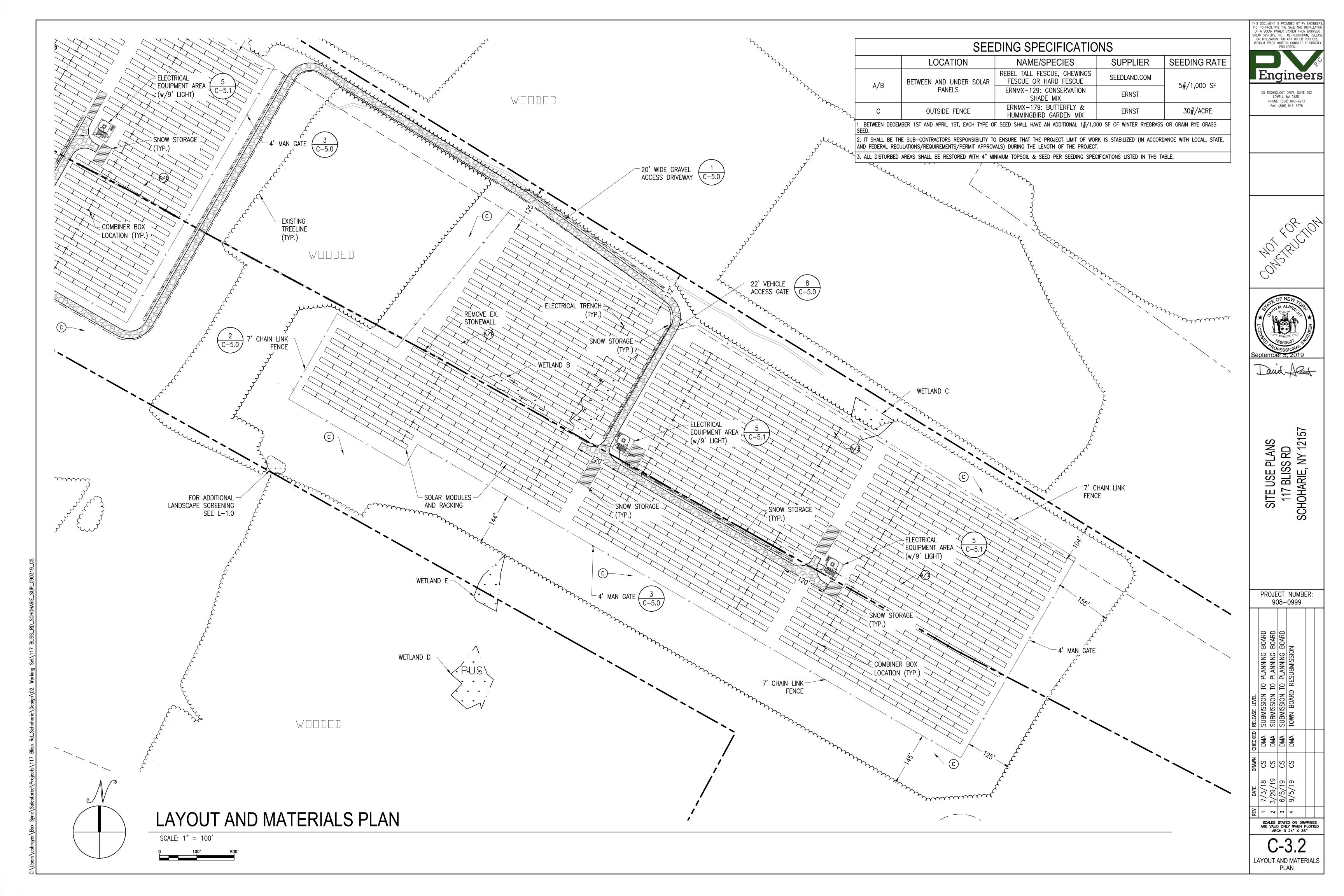


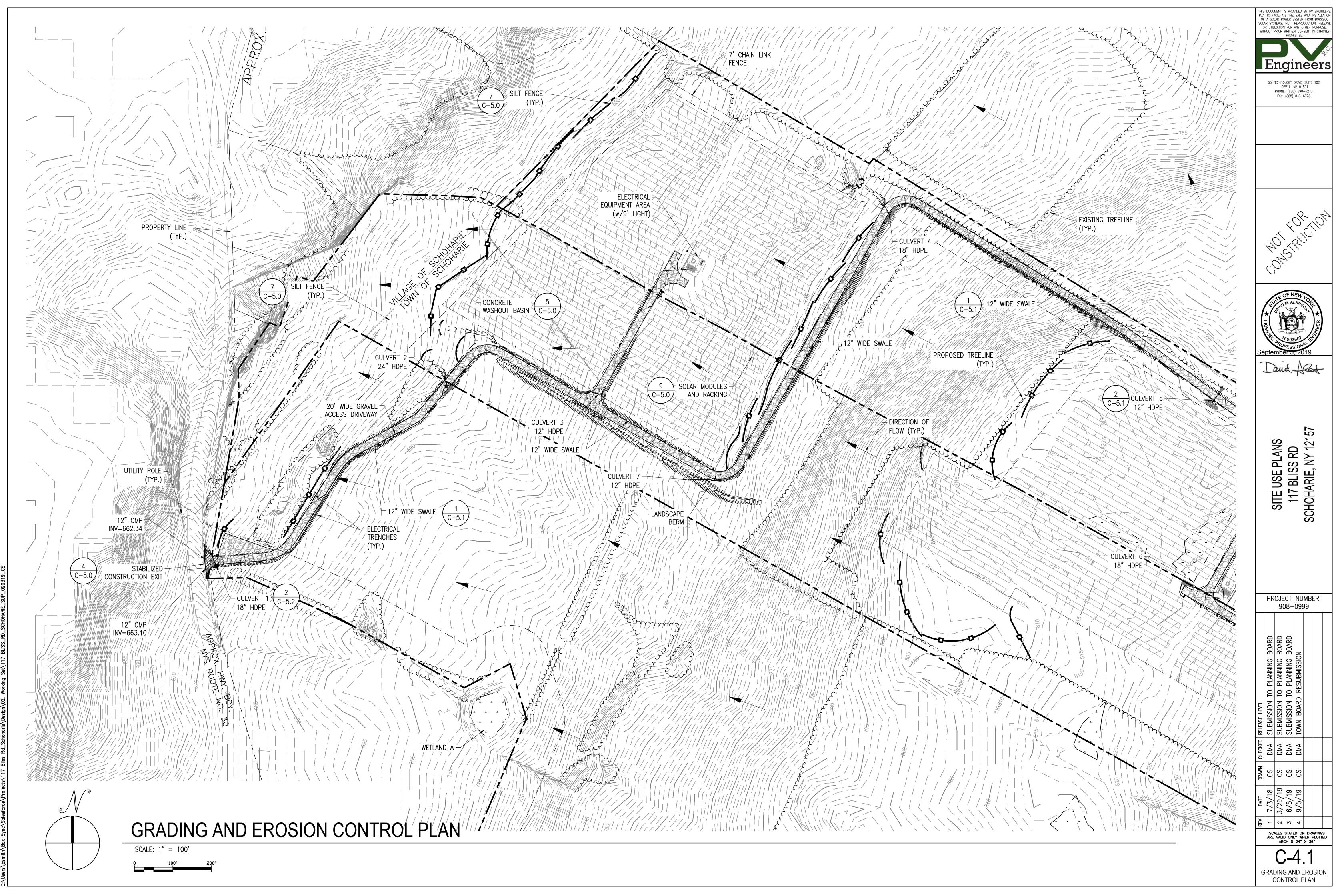


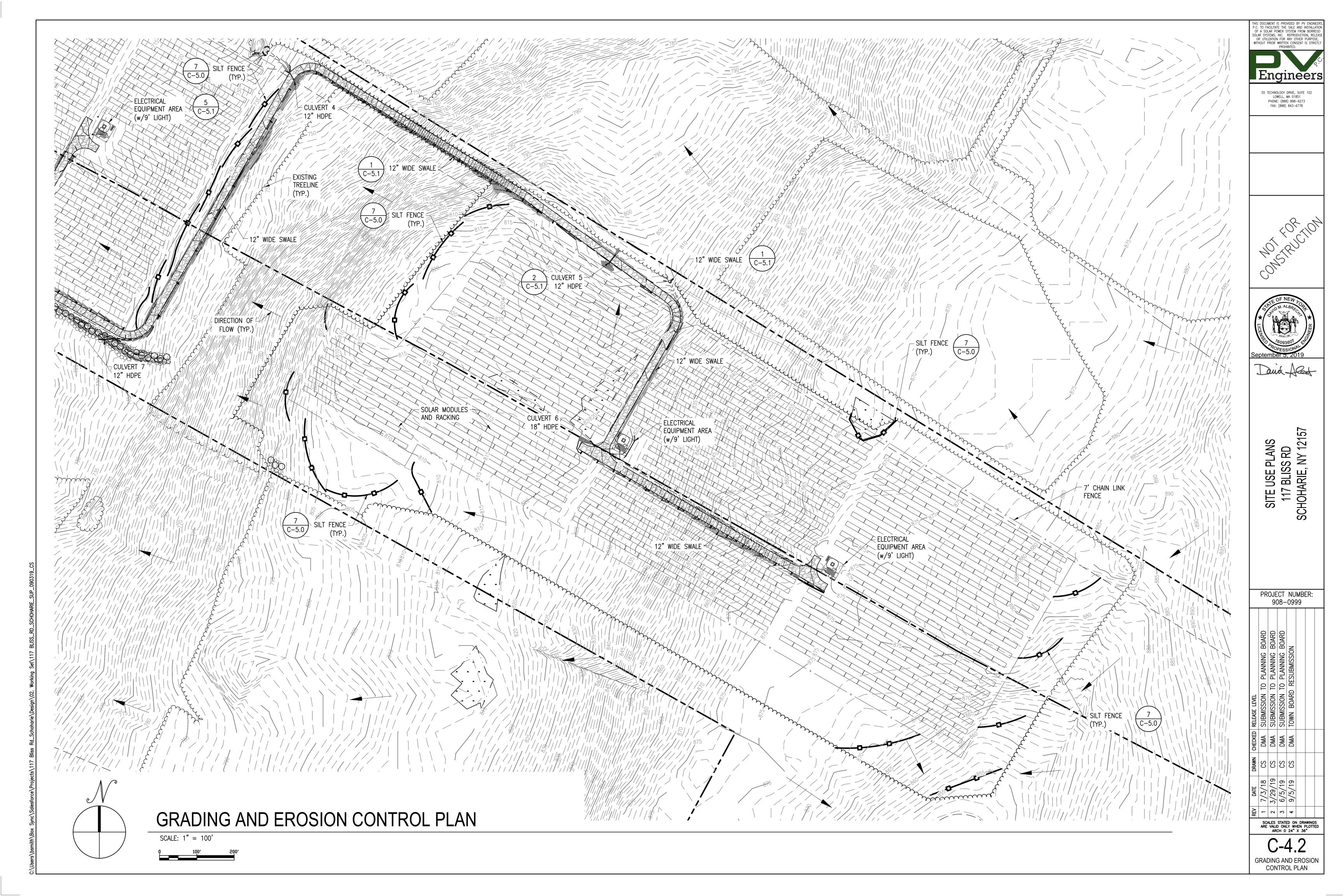


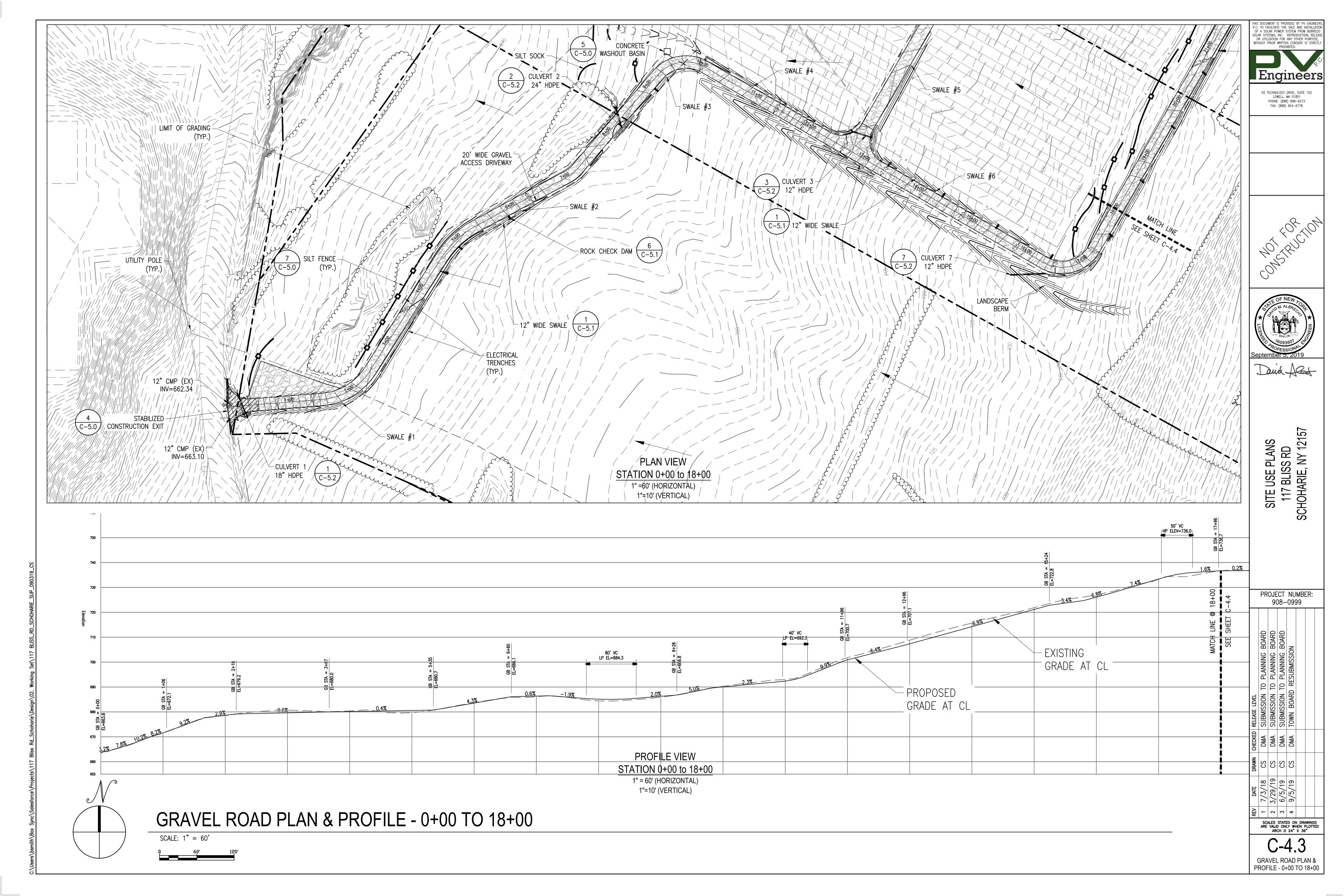


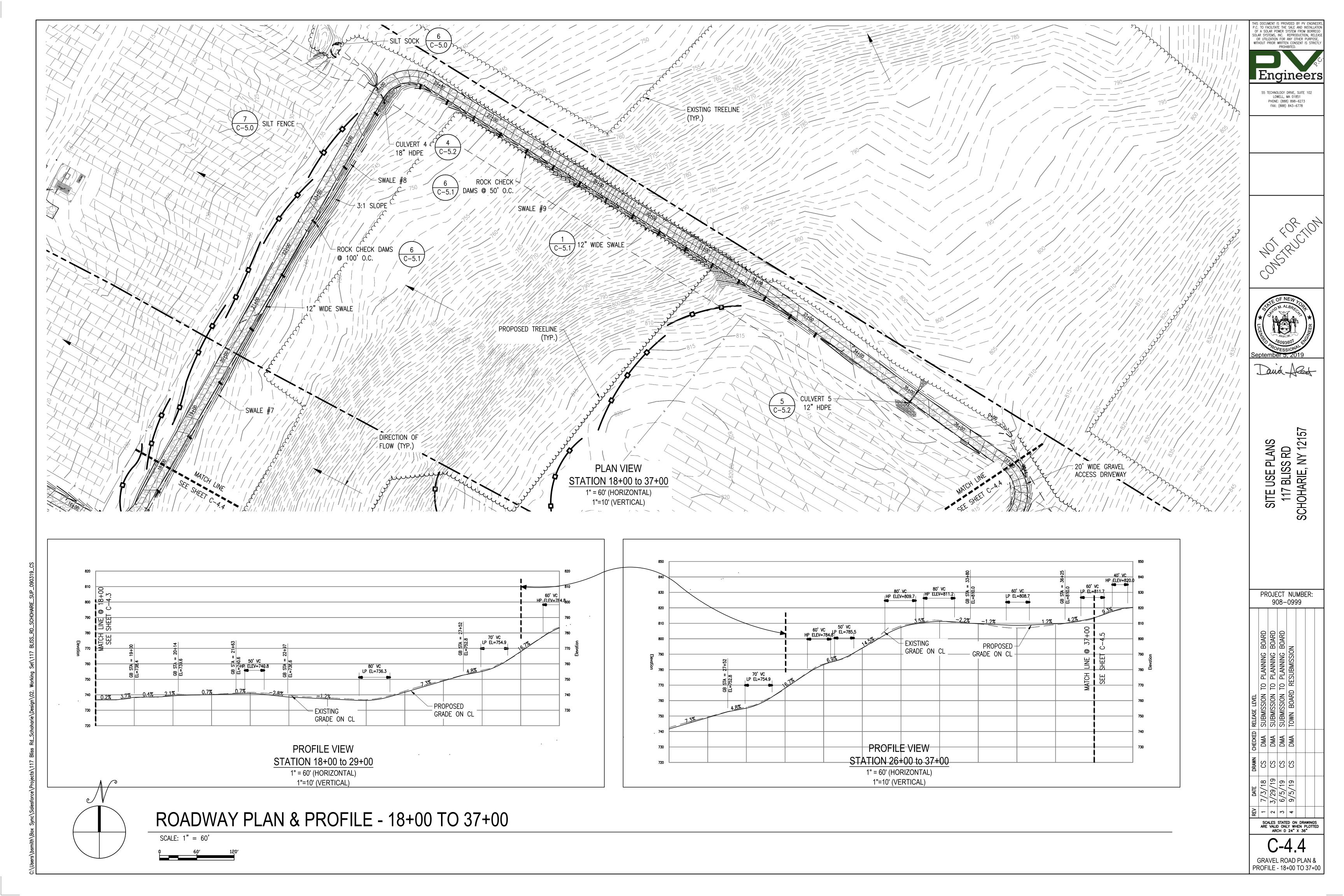


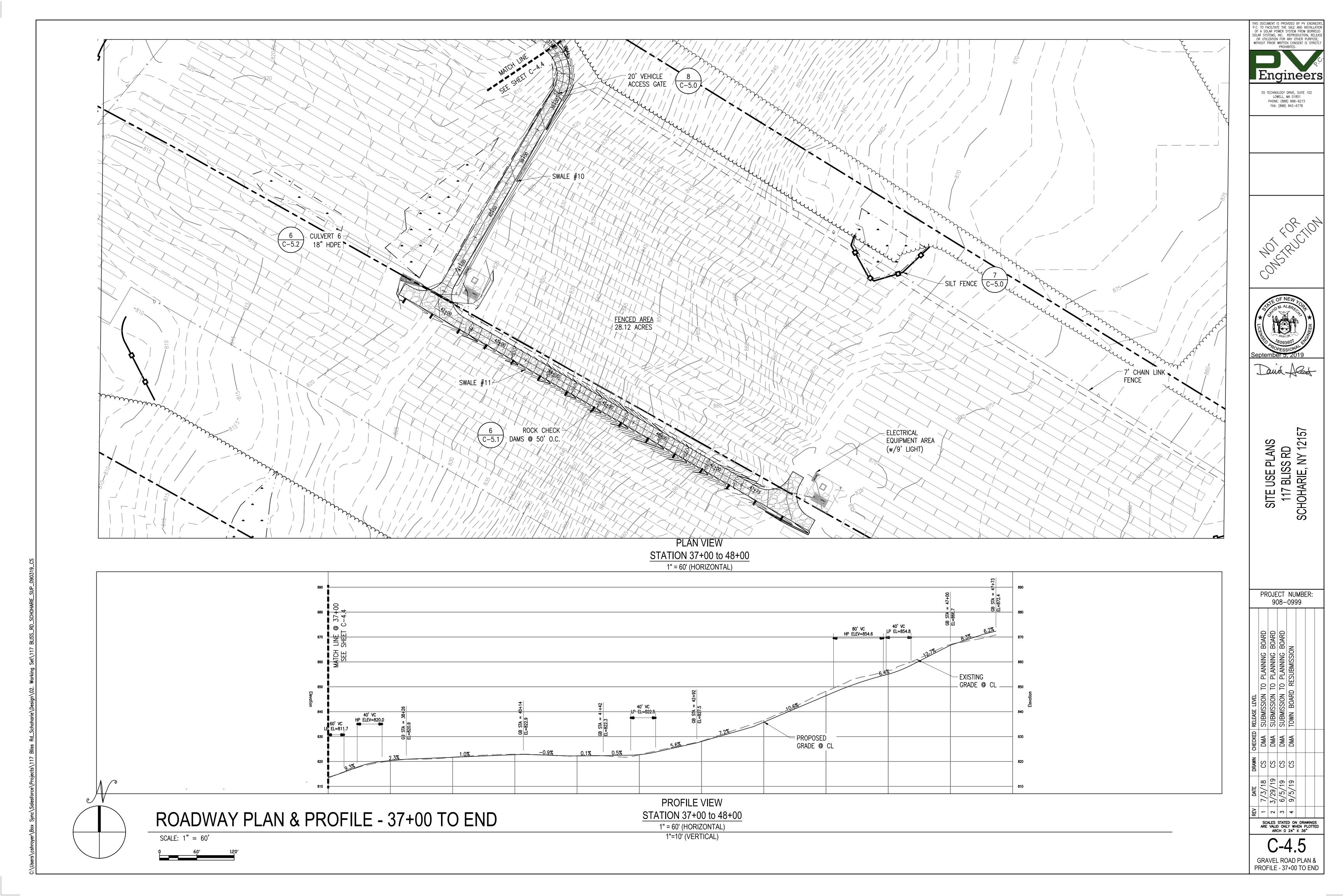


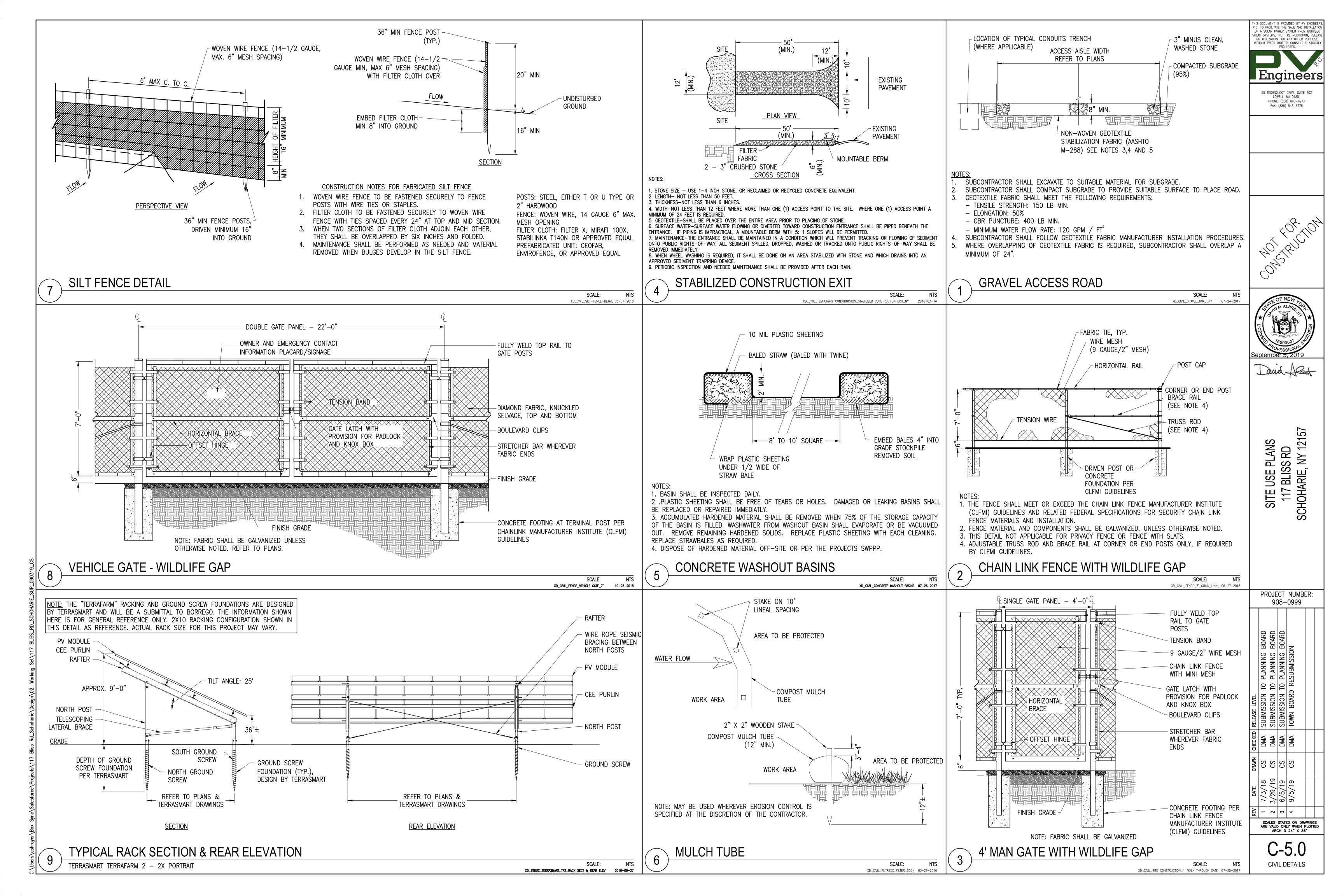


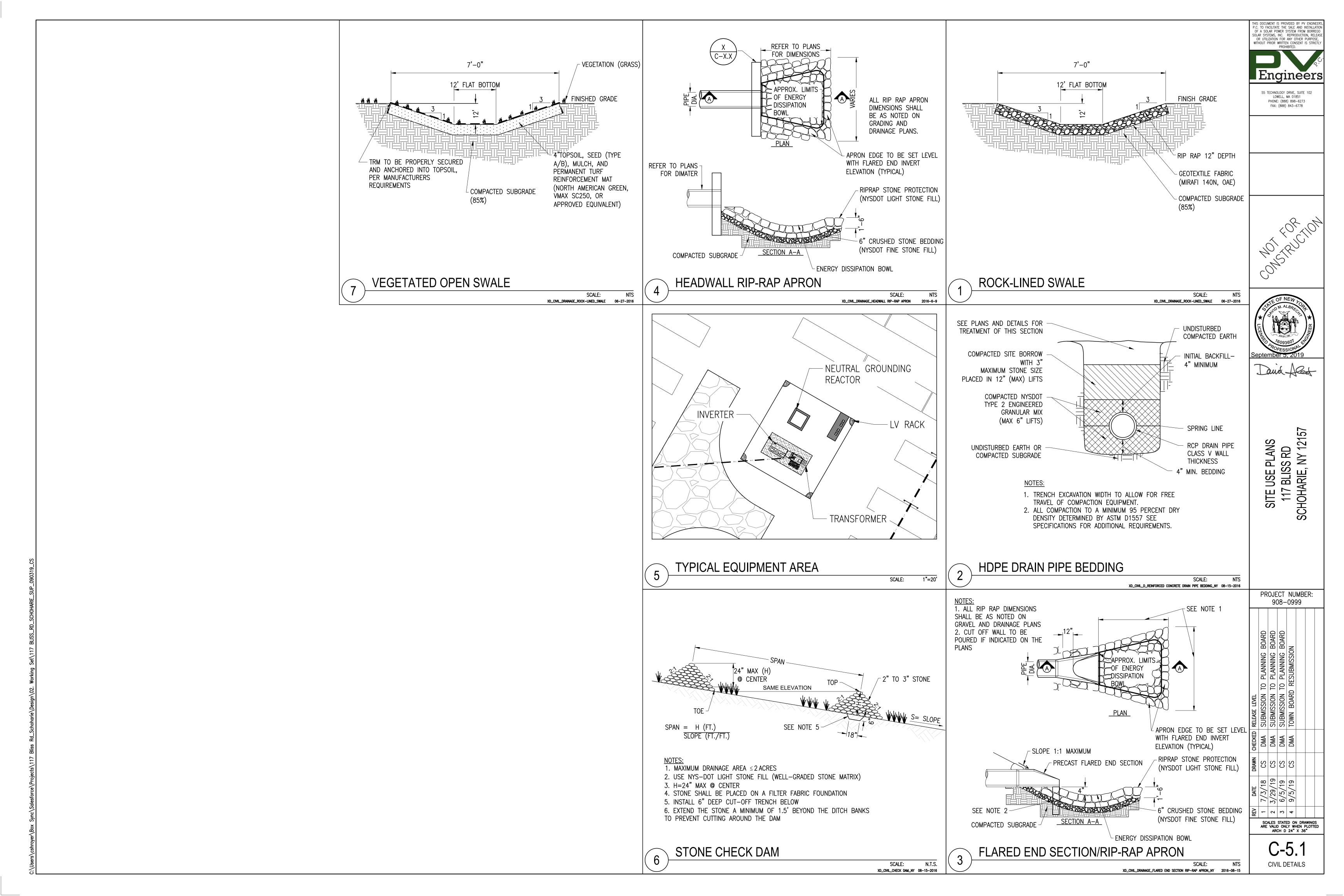


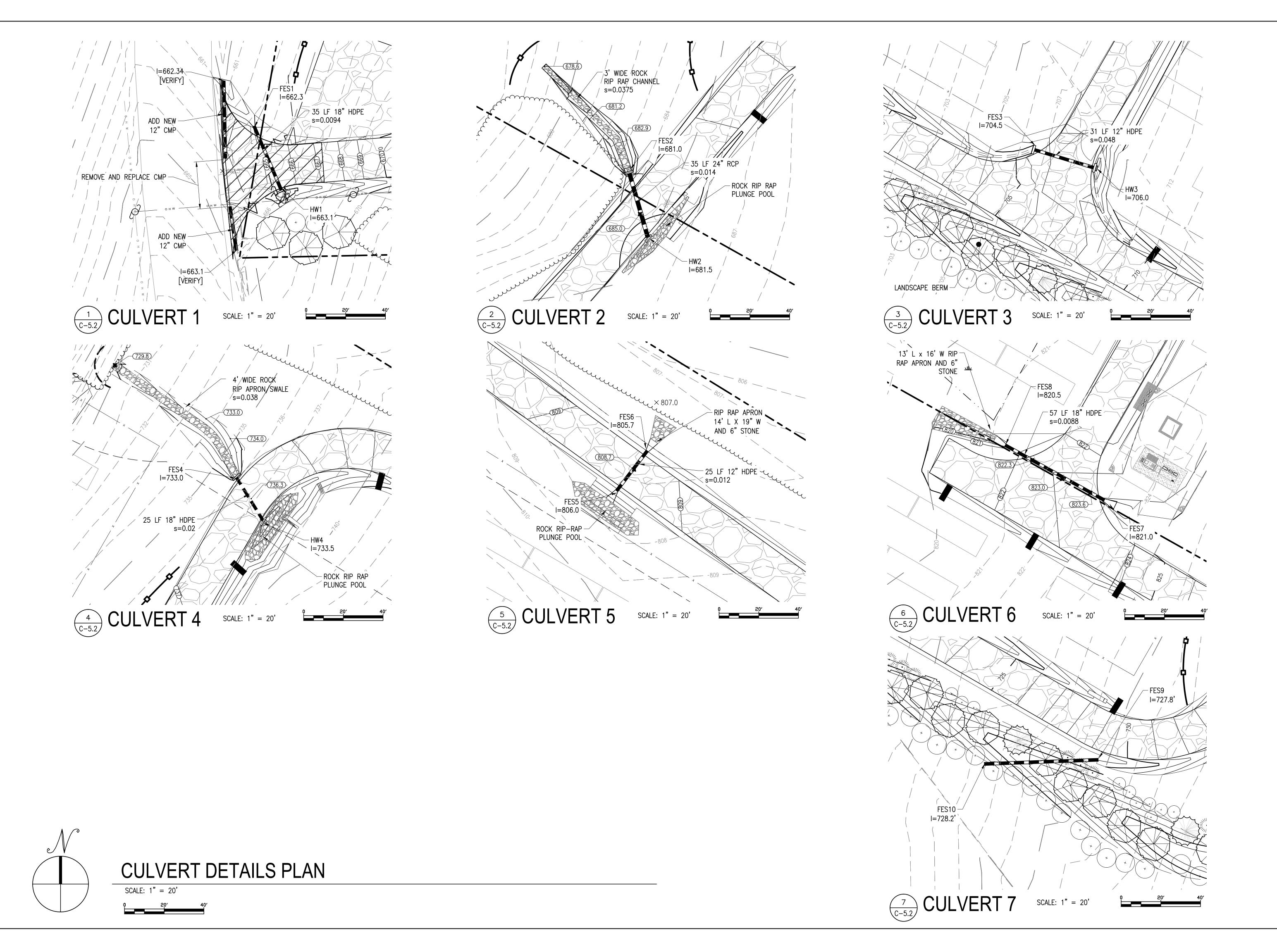












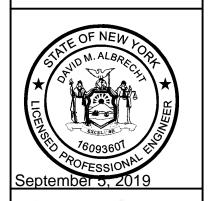
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Engineers

55 TECHNOLOGY DRIVE, SUITE 102

55 TECHNOLOGY DRIVE, SUITE 102 LOWELL, MA 01851 PHONE: (888) 898–6273 FAX: (888) 843–6778

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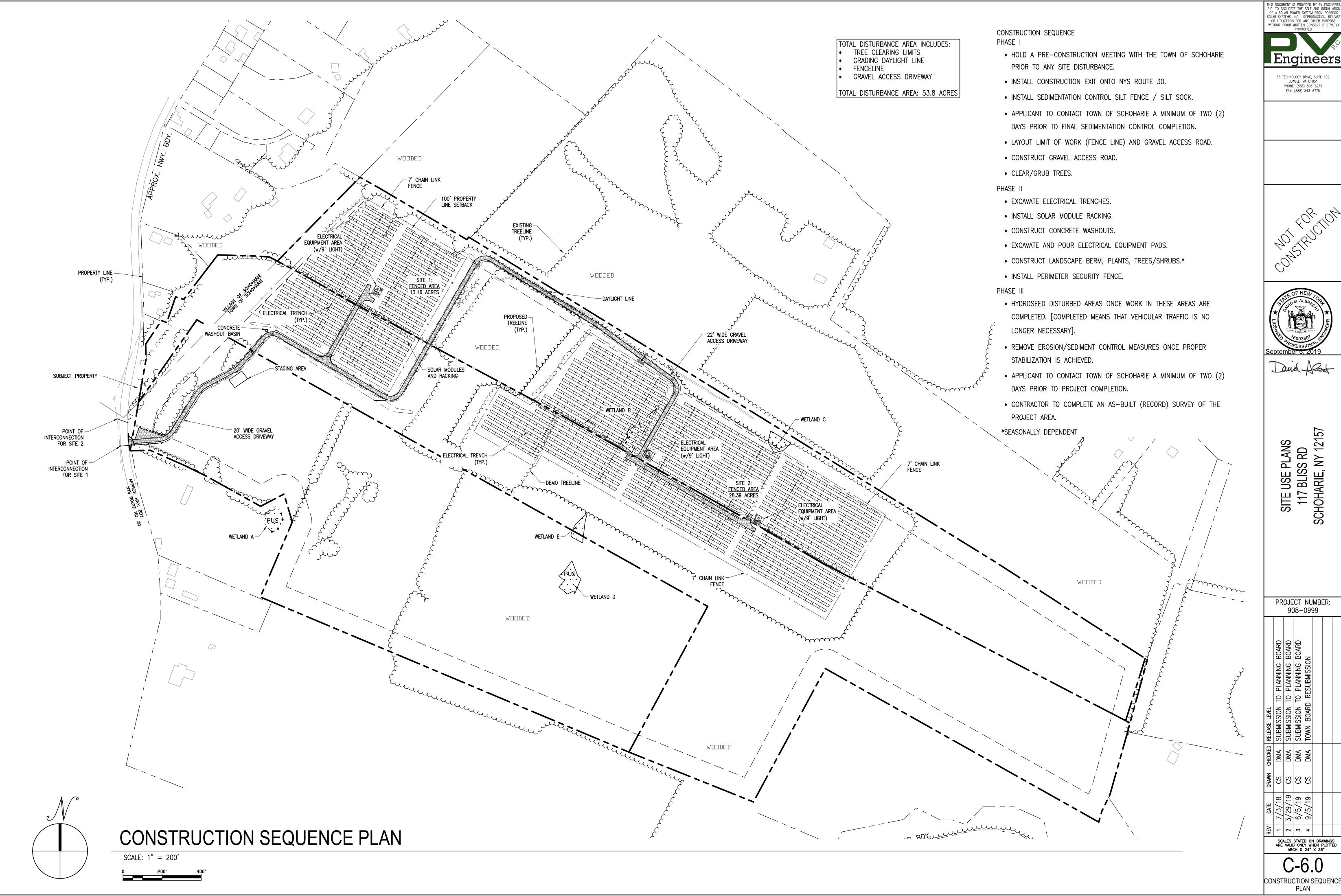
David Alex

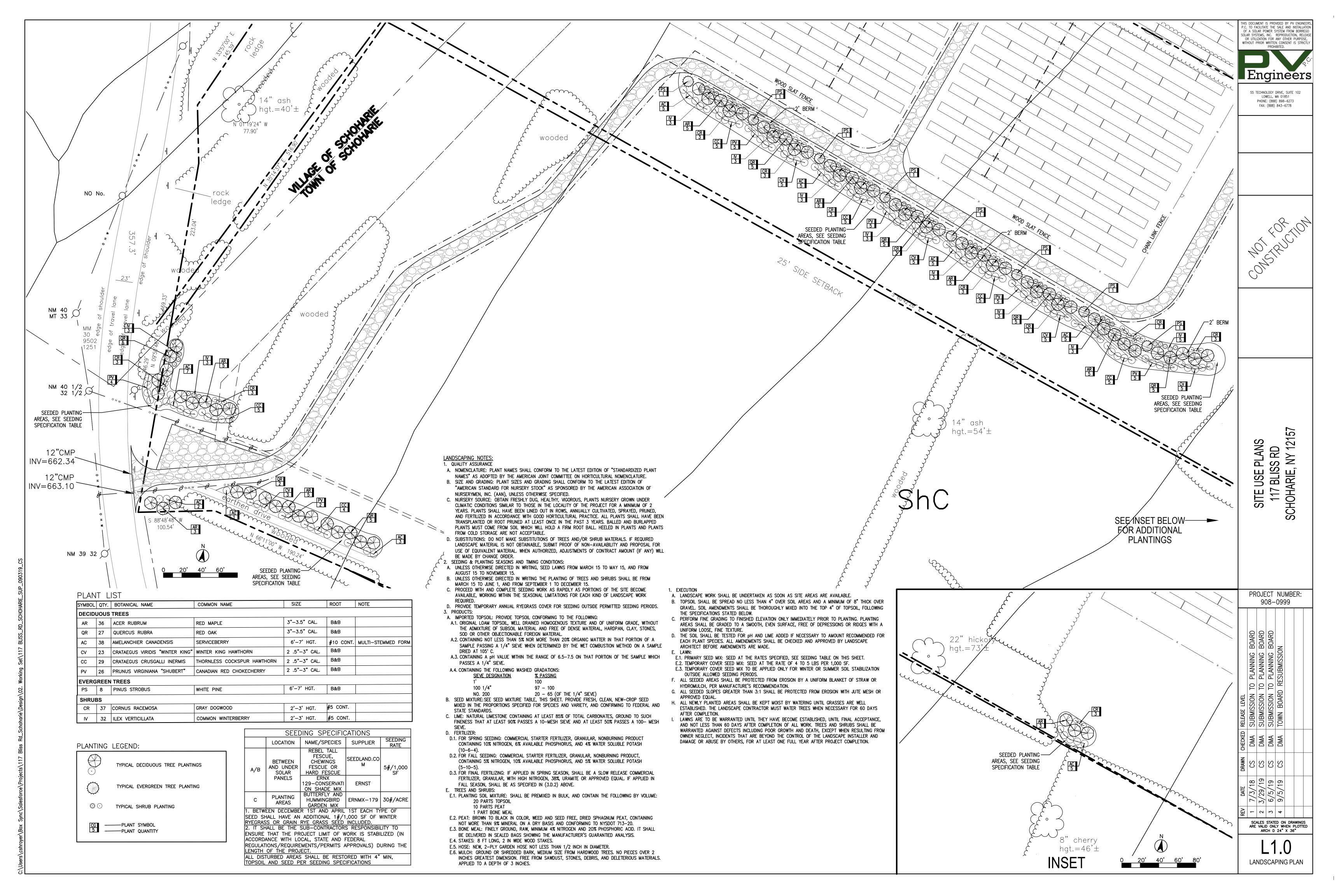
SITE USE PLANS 117 BLISS RD SCHOHARIE, NY 12157

CS DMA SUBMISSION TO PLANNING BOARD
CS DMA SUBMISSION TO PLANNING BOARD
CS DMA SUBMISSION TO PLANNING BOARD
CS DMA TOWN BOARD RESUBMISSION

scales stated on drawings are valid only when plotted arch d 24" x 36"

CULVERT DETAILS PLAN





#### SHEET NOTES

- 1. UTILITY OWNED EQUIPMENT IS SHOWN FOR REFERENCE PURPOSES ONLY. IT IS NOT FOR CONSTRUCTION. IT MAY BE CHANGED BY THE UTILITY AT ANY TIME AND IS SUBJECT TO THE UTILITY FINAL APPROVAL.
- 2. GEC TO CONNECT TO GROUND RING.
- 3. TERMINATIONS FOR ALUMINUM CONDUCTORS SHALL COMPLY WITH 260519-P OF ELECTRICAL SPECIFICATIONS. ALL COMPRESSION LUGS SHALL BE PROVIDED BY SUBCONTRACTOR.
- 4. REFERENCE ELECTRICAL EQUIPMENT MANUALS FOR CONDUIT OPENINGS AS CONDUITS ARE SIZED TO NEC MINIMUMS.
- 5. WHERE TRANSITIONS THROUGH DIFFERENT CONDUIT TYPES CAUSE A CHANGE IN CONDUIT SIZE, ADDITIONAL SIZES AND FILLS ARE ALSO NOTED IN THE SCHEDULE BY TYPE.

EXISTING UTILITY CIRCUIT -

POLE #U1.1 UTILITY RECLOSER

POLE #C1.1
UTILITY DISCONNECT
WITH CUSTOMER
OWNED FUSED

CUTOUTS

POLE #C1.2 UTILITY METER

POLE #C1.3
RISER POLE WITH
CUSTOMER LOABREAK
DISCONNECT SWITCH
(3) SURGE
ARRESTERS

(TYP)

AT 13.2 KV

UTILITY

CUSTOMER

Enginee	rs
55 TECHNOLOGY DRIVE, SUITE 10 LOWELL, MA 01851 PHONE: (888) 898-6273 FAX: (888) 843-6778	2

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(E) NGRID POLE #40

PROJECT NUMBER: 908-0999						
SUBMISSION TO PLANNING BOARD	SUBMISSION TO PLANNING BOARD	SUBMISSION TO PLANNING BOARD	TOWN BOARD RESUBMISSION			
DMA	DMA	DMA	DMA			
SO	CS	CS	CS			
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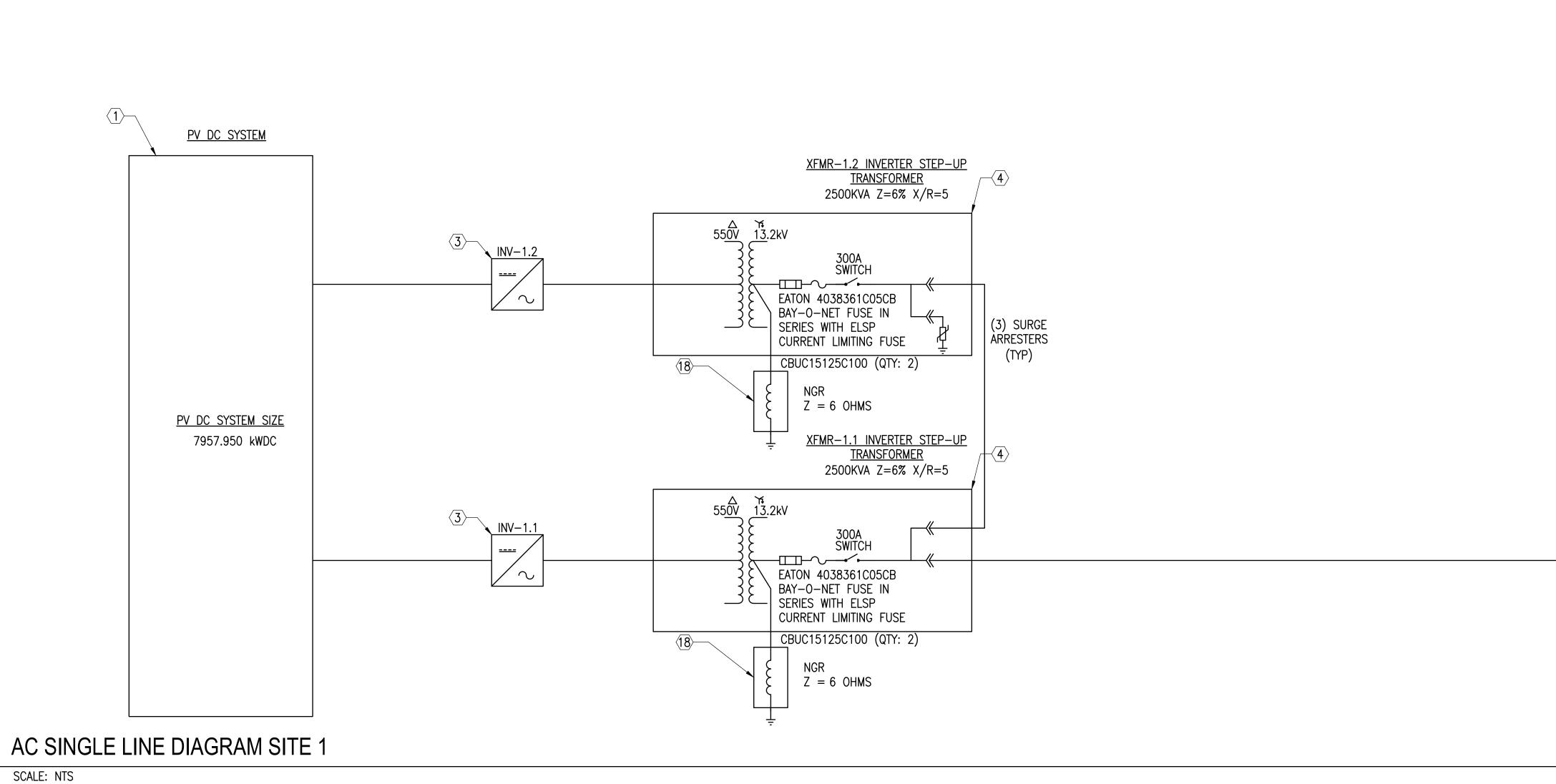
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	7	3	4				
`	3/2	/9	/6				

E-2.1
AC SINGLE LINE DIAGRAM

SITE 1

	ELECTRICAL EQUIPMENT SCHEDULE					
REF. #	QTY.	DESCRIPTION				
1	20670	JA SOLAR JAM72S09-385/PR MODULE				
3	2	INV-1.1, INV-1.2, SMA SC2500-EV-US INVERTER				
4	2	XFMR-1.1, XFMR-1.2, EATON, 2500KVA, 13.2KV GWYE PRIMARY, 550V DELTA SECONDARY				
7A	1	GOAB SWITCH, ACSW-1, S&C, OMNI-RUPTER, 147532R4-B-P1/ED-713R4-S10, 15kV, 900A, POLE MOUNTED LOAD BREAK SWITCH, VERTICAL, VISIBLE OPEN				
7B	1	GOAB SWITCH, ACSW-2, S&C, OMNI-RUPTER, 147442R4-A2-P1/ED-711R4-S1, 15kV, 900A, POLE MOUNTED LOAD BREAK SWITCH, UPRIGHT, VISIBLE OPEN				
14	3	FUSED CUTOUT, S&C, SMD40, 14.4KV, 25kA, 110kV BIL, CATALOG #192322, SMU40, 14.4kV, 250E, CATALOG #822250				
18	2	NGR-1.1, NGR-1.2, NEUTRAL GROUNDING REACTOR, 6 OHMS				

INVERTER INTERNAL RELAY SETTINGS						
DEVICE	PICKUP	TIME DELAY	DESCRIPTION			
27-1	275V	1.1 SEC	UNDER VOLTAGE RELAY			
27-2	484V	2 SEC	UNDER VOLTAGE RELAT			
59-1	605V	2 SEC	OVER VOLTAGE RELAY			
59-2	660V	0.16 SEC	OVER VOLIAGE RELAT			
81U-1	56.5 HZ	0.16 SEC				
81U-2	58.5 HZ	300 SEC	UNDER / OVER			
810-1	61.2 HZ	300 SEC	FREQÚENCY			
810-2	62.0 HZ	0.16 SEC				



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EXISTING UTILITY CIRCUIT

AT 13.2 KV

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NY 12157

SITE USE PLANS 117 BLISS RD SCHOHARIE, NY 1215

PROJECT NUMBER: 908-0999

TO PLANNING BOARD
TO PLANNING BOARD
TO PLANNING BOARD
D RESUBMISSION

POI (N) UTILITY POLE

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ELECTRICAL EQUIPMENT SCHEDULE					
REF. #	QTY.	DESCRIPTION			
1	9412	JA SOLAR JAM72S09-385/PR MODULE			
3	1	INV-2.1, SMA SC2500-EV-US INVERTER, LIMITED @2000KWAC			
4	1	XFMR-2.1, EATON, 2000KVA, 13.2KV GWYE PRIMARY, 550V DELTA SECONDARY			
7A	1	GOAB SWITCH, ACSW-1, S&C, OMNI-RUPTER, 147532R4-B-P1/ED-713R4-S10, 15kV, 900A, POLE MOUNTED LOAD BREAK SWITCH, VERTICAL, VISIBLE OPEN			
7B	1	GOAB SWITCH, ACSW-2, S&C, OMNI-RUPTER, 147442R4-A2-P1/ED-711R4-S1, 15kV, 900A, POLE MOUNTED LOAD BREAK SWITCH, UPRIGHT, VISIBLE OPEN			
14	3	FUSED CUTOUT, S&C, SMD20, 14.4KV, 25kA, 150kV BIL, CATALOG #92142R3-P-D, SMU20, 14.4kV, 100K, CATALOG #702100			
18	1	NGR-2.1, NEUTRAL GROUNDING REACTOR, 6 OHMS			

IN	INVERTER INTERNAL RELAY						
		SETTINGS	3				
DEVICE	PICKUP	TIME DELAY	DESCRIPTION				
27–1	275V	1.1 SEC	UNDER VOLTAGE RELAY				
27–2	484V	2 SEC	UNDER VOLTAGE RELAT				
59-1	605V	2 SEC	OVER VOLTAGE RELAY				
59-2	660V	0.16 SEC	OVER VOLTAGE RELAT				
81U-1	56.5 HZ	0.16 SEC					
81U-2	58.5 HZ	300 SEC	UNDER / OVER				
810-1	61.2 HZ	300 SEC	FREQUENCY				
810-2	62.0 HZ	0.16 SEC					

XFMR-2.1 INVERTER STEP-UP
TRANSFORMER
2000KVA Z=6% X/R=5

EATON 4038361C05CB
BAY-O-NET FUSE IN
SERIES WITH ELSP
CURRENT LIMITING FUSE
CBUC15125C100 (QTY: 2)

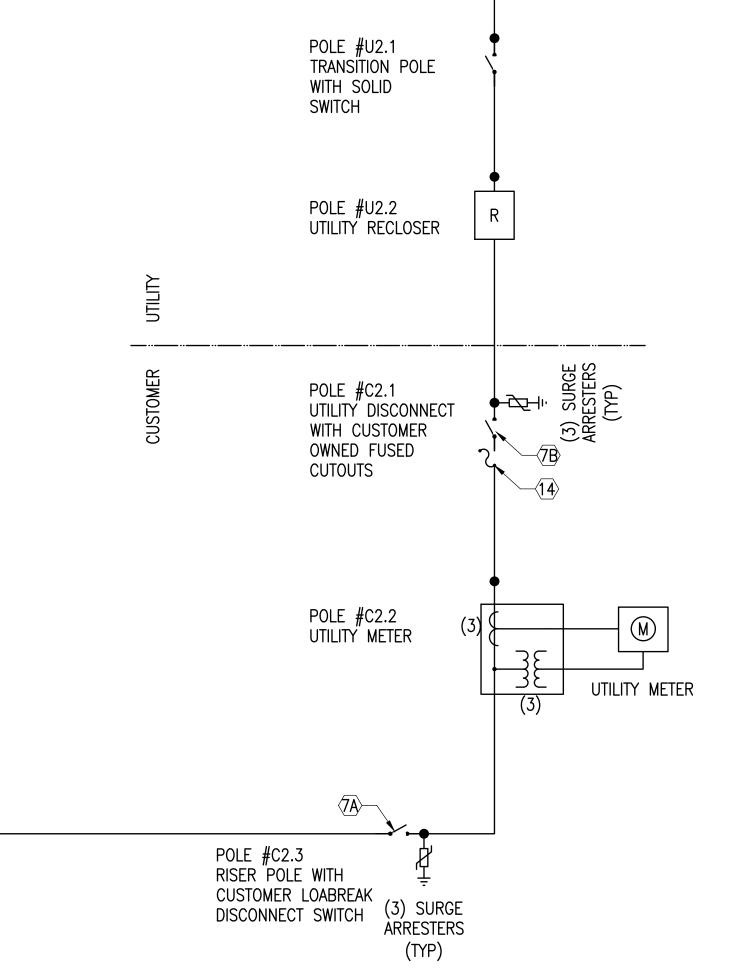
Z = 6 OHMS

55<u>0V</u> 13.2kV

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4

(3) SURGE ARRESTERS



AC SINGLE LINE DIAGRAM SITE 2

1

PV DC SYSTEM

PV DC SYSTEM SIZE

3623.620 kWDC

SCALE: NTS

CS CS CS CS CS SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

E-2.2

AC SINGLE LINE DIAGRAM SITE 2